Instructor: Steve MacEachern  
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Office: 205C Cockins Hall  
Office Hours: Monday, 10:30 - 11:18; Wednesday 2:30 - 3:18  
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Lectures: MWF 9:00 - 10:18 a.m.  
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Office Hours: To be announced  
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**Course Description:** Statistics 664 is a course on statistical quality control. During the course, we will cover the basics of quality control, learning some of the language that is used in the area, reviewing the basic statistical background that is needed to understand and implement quality control methods, and learning some new graphical techniques. We will cover control charts carefully, will discuss process capability studies and acceptance sampling. As time permits, we will cover selected additional material. The course will cover material from chapters 1 through 9, 14 and 15 of Montgomery’s book plus bits and pieces of additional material.

**Grading:** Course grades will be assigned on the basis of performance on homework, one midterm exam, the final exam, and the course term paper.

- Homework 20%
- Midterm 30%
- Final 40%
- Term Paper 10%

The exams will be open book, closed notes. The midterm exam will be given in class. The date of the exam will be announced in class. The date and time of the final exam is as scheduled in the main registration guide. It will be on **Monday, December 3, from 7:30 to 9:18am.**

The term paper is expected to be based on a relatively recent article taken from the quality control literature or to be a thoughtful analysis of an interesting data set. Some journals in which good papers can be found are: Technometrics, the Journal of Quality Technology, Quality Progress, the ASQC Annual Meeting Proceedings, and some of the IEEE Transactions. These journals are available in the Science and Engineering Library (that’s the one that has the stat journals and books in it).

**Homework assignments:** Homework will be collected approximately weekly, making for about seven homework assignments during the quarter. Solutions will be made available online. Your lowest homework score will be dropped before computing your homework grade.

**Computer work:** Many of the analyses for the course will be done on the computer with the Minitab package. Other software packages also have quality control modules, and you are free to make use of these packages. But, the exams will contain computer output from the Minitab package, so you should become familiar with Minitab.

**Course web page:** There will be a course web page where you will find copies of the homework assignments and occasional other postings.